SEQUENCE LISTING

(1) GENERAL INFORMATION:

(2) INFORMATION FOR SEQ ID NO:1:
    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH:
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY:linear
    (ii)   MOLECULE TYPE: DNA (oligonucleotide)
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

FR-patched RFB4

VH:
Full length cDNA sequence (SEQ ID no. 1):
GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA
GGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT
CTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGGCTGGA
GTGGGTCGCATACATTAGTAGTGGTGGTGGTACCACCTACTATCCA
GACACTGTGAAGGGCCGATTCACCATCTCCAGAGACAATGCCAAG
AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA
GCCTTATATTACTGTGCAAGACATAGTGGCTACGGTAGTAGCTACG
GGGTTTTGTTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCT
TCA

Full length amino acid sequence (SEQ ID no. 2):
EVQLLESGGGLVQPGGSLRLSCAASGFSFSIYDMSWVRQAPGKGLEW
VAYISSGGGTTYYPDTVKGRFTISRDNAKNSLYLQMNSLRVEDTALYY
CARHSGYGSSYGVLFAYWGQGTLVTVSS

N-terminal sense strand template DNA sequence (SEQ ID no. 3):
CCTGGAGGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTT
CAGTATCTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGG
CTGGAGTGGGTCGCATAC

5' Primer for N-template (SEQ ID no. 4)
GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA
GGGTCCCTGAGG

3' Primer for N-template (SEQ ID no. 5)
GTAGGT<u>GGTACC</u>ACCACCACTACTAATGTATGCGACCCACTCCAGC
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA
TGAACAGTCTGAGGGTGGAGGACACAGCCTTATATTACTGTGCAAG
ACATAGTGGCTACGGTAGTAGCTACGGGGTTTTGTTTGCT

5 5' Primer for C-template (SEQ ID no. 7)
   GGT<u>GGTACC</u>ACCTACTATCCAGACACTGTGAAGGGCCGATTCACCA
   TCTCCAGAGACAAT

   3' Primer for C-template (SEQ ID no. 8)
10 TGAAGAGACAGTGACCAGAGTCCCTTGGCCCCAGTAAGCAAACAA
   AACCCCGTAGCT

   Joining site: KpnI
   ■■

15 VK:

   Full length cDNA sequence (SEQ ID no. 9)
   GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
   AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA
20 TTATTTAAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC
   CTGATCTACTACACTAGTATATTACACTCAGGAGTCCCATCAAGGT
   TCAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCACCATTAGCTC
   CCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAACAGGGTAAT
   ACGCTTCCGTGGACGTTCGGTGGAGGCACCAAGGTGGAAATCAAA
25
   Full length amino acid sequence (SEQ ID no. 10)
   DIQMTQSPSSLSASVGDRVTISCRASQDISNYLNWYQQKPGKAPKLLIY
   YTSILHSGVPSRFSGSGSGTEFTLTISSLQPEDFATYFCQQGNTLPWTFG
   GGTKVEIK
30
   N-terminal sense strand template DNA sequence (SEQ ID no. 11)
   CTGTCTGCCTCTGTGGGAGACAGAGTCACCATTAGTTGCAGGGCAA
   GTCAGGACATTAGCAATTATTTAAACTGGTATCAGCAGAAACCAGG
   TAAGGCTCCGAAACTC
35
   5' Primer for N template (SEQ ID no. 12)
   GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
   AGAC

40 3' Primer for N-template (SEQ ID no. 13)
   ATAT<u>ACTAGT</u>GTAGTAGATCAGGAGTTTCGGAGCCTTACC

   C-terminal sense strand template DNA sequence (SEQ ID no. 14)
   CCATCAAGGTTCAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCA
45 CCATTAGCTCCCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAA
   CAGGGTAATACGCTTCCGTGGACGTTC

   5' Primer for C-template (SEQ ID no. 15)
   CTAC<u>ACTAGT</u>ATATTACACTCAGGAGTCCCATCAAGGTTCAGTGGC
50 AGT

3' Primer for C-template (SEQ ID no. 16)
TTTGATTTCCACCTTGGTGCCTCCACCGAACGTCCACGGAAGCGTA
TT

Joining site: SpeI A$^\nabla$CTAG$_\Delta$T

FR-Patched chimeric 1F5

VH:

Full length cDNA sequence (SEQ ID no. 17):
CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG
GCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCTACACATTTACCA
GTTACAATATGCACTGGGTACGGCAGCCTCCTGGAAGGGGCCTGGA
ATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTAGTTACAAT
CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC
AGCACAGCCTACATGCAGCTCAGCAGTCTGACATCTGAGGACTCTG
CGGTCTATTACTGTGCAAGATCGCACTACGGTAGTAACTACGTAGA
CTACTTTGACTACTGGGGCCAAGGCACCACTGTTACAGTCTCCTCT
GATCA

Full-length amino acid sequence (SEQ ID no. 18):
QVQLVASGAEVNKPGASVKVSCKASGYTFTSYNMHWVRQPPGRGLE
WIGAIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVY
YCARSHYGSNYVDYFDYWGQGTTVTVSSD

N-terminal sense strand template DNA sequence (SEQ ID no. 19):
AATAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCT
ACACATTTACCAGTTACAATATGCACTGGGTACGGCAGCCTCCTGG
AAGGGGCCTGGAATGGATTGGA

5' Primer for N-template (SEQ ID no. 20)
CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG
GCCTCAGTGAAG

3' Primer for N-template (SEQ ID no. 21)
TGTAACTAGTATCACCATTTCCTGGATAAATAGCTCCAATCCATTCC
AGGCCCCT

C-terminal sense strand template DNA sequence (SEQ ID no. 22):
TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA
GTCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGCA
CTACGGTAGTAACTACGTAGACTACTTTGACTAC

5' Primer for C-template (SEQ ID no. 23)
TGATACTAGTTACAATCAGAAATTCAAGGGCAAGGCCACATTGACT
GCAGACAAATCCTCC

42

3' Primer for C-template (SEQ ID no. 24)
TGATCAGAGGAGACTGTAACAGTGGTGCCTTGGCCCCAGTAGTCAA
AGTAGTCTACGTA

5

Joining site: SpeI

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):
GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTGGG
GGACAGAGTCACAATTACTTGCAGGGCCAGCTCAAGTTTAAGTTTC
ATGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCCAAACCCTGGA
TTTATGCCACATCCAACCTGGCTTCCGGAGTCCCTAGTCGCTTCAGT
15 GGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCAGTTTGC
AGCCTGAAGATTTCGCCACTTATTTCTGCCATCAGTGGAGTAGTAA
CCCGCTCACGTTCGGTGCTGGGACCAAGCTGACCGTTCTACGG

Full-length amino acid sequence (SEQ ID no. 26):
20 DIQLTQSPSSLSASVGDRVTITCRASSSLSFMHWYQQKPGSSPKPWIYA
TSNLASGVPSRFSGSGSGTEFTLTISSLQPEDFATYFCHQWSSNPLTFGA
GTKLTVLR

N-terminal sense strand template DNA sequence (SEQ ID no. 27):
25 TCAAGTCTTTCTGCATCTGTGGGGGACAGAGTCACAATTACTTGCA
GGGCCAGCTCAAGTTTAAGTTTCATGCACTGGTACCAGCAGAAGCC
AGGATCCTCCCCCAAACCCTGGATTTATGCCACATCC

5' Primer for N-template (SEQ ID no. 28):
30 GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):
GGACTCCGGAAGCCAGGTTGGATGTGGCATAAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):
TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCA
GTTTGCAGCCTGAAGATTTCGCCACTTATTTCTGCCATCAGTGGAGT
AGTAACCCGCTCACGTTCGGTGCTGGG

40 5' Primer for C-template (SEQ ID no. 31):
GGCTTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):
CCGTAGAACGGTCAGCTTGGTCCCAGCACCGAACGTGAGCGG

45

Joining site: BspEI

43